Installing Updates Without Native BD Chip (NoBD Update Method)

Version: 0.0.5 (2024)
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Disclaimer: We accept no liability for damage caused directly or indirectly by the repairing your consoles.

This method allows you to bypass the check of the native drive chip (CE-35888-2 and SU-42118-6), but game discs cannot be played!

Summary

- You need a working PS4 revision 12 with any software version.
- The BD drive chip from revision 12 can switch to emergency (EM-BOOT) mode (we'll call it **Master Mode**) if it is connected to another PS4 console (any other).
- This method will allow you to update/install the system once! (9.00 or HIGHER version)
- After use, the chip will go into Normal mode (we'll call it **Slave** mode), you need to return it back to revision 12 and update the system in safe mode (to the same software version)
- After system installed you can make a backup copy of your hard drive or replace it with one of the same size (if it fails). Use HDD Raw Copy Tool
- Once the system update is complete, the chip can be reused (Switched to **Master Mode**).

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First Steps

1. Take/buy a working PS4 revision 12 (12XX), XX any numbers

2. Remove the HDD bay top cover and remove the plastic cover of the BD drive chip

3. Unsolder the chip and you can use it to install the system once!

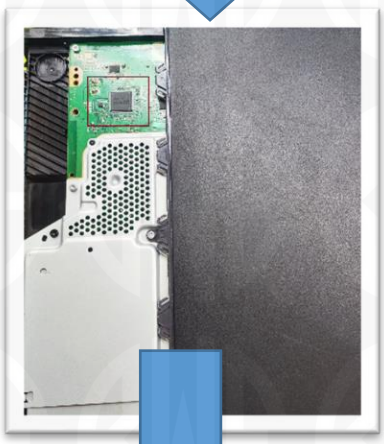
4. Select the appropriate method for connecting the chip to the board (Contents page)

5. After use, the chip will go into Slave mode, return it back to revision 12! You need to update the system to the SAME VERSION in safe mode to go into Master mode

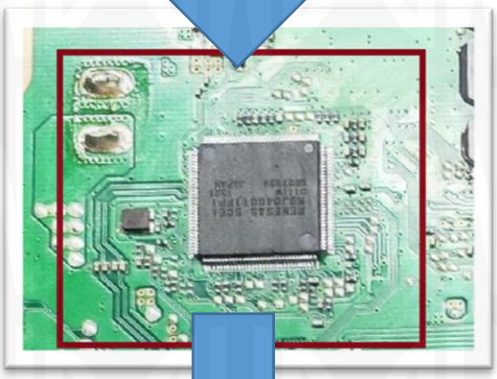
Visual Diagram

PS4 12XX REV
SW: 11.00

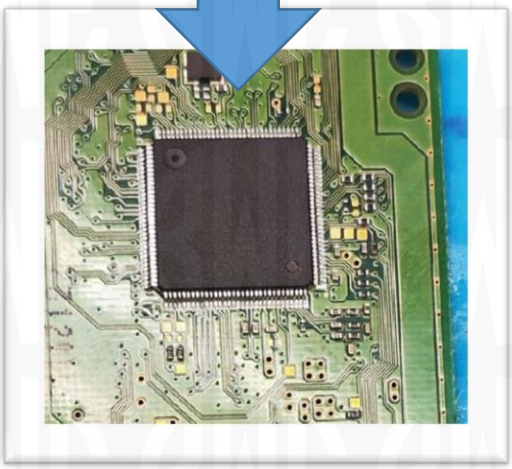
disassemble



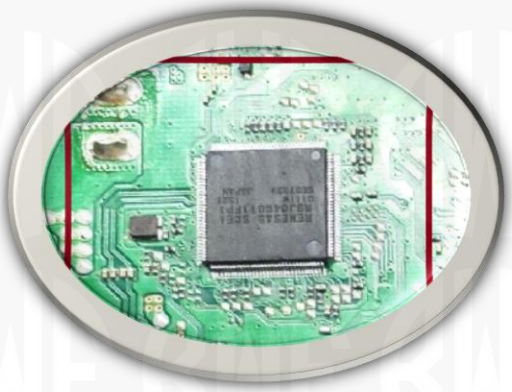
Unsolder
Master chip



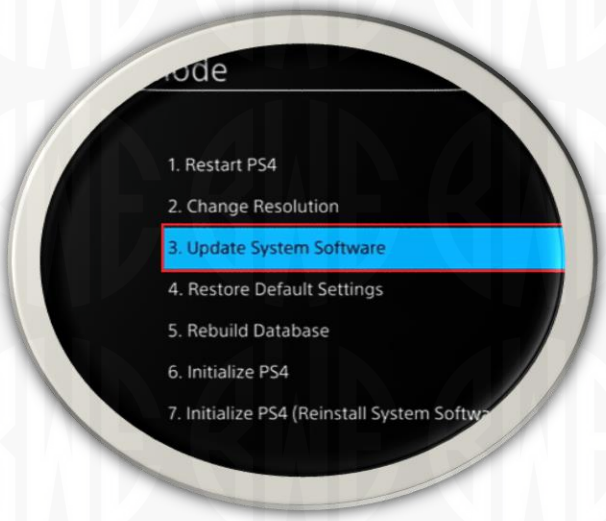
use on another revision
(see below)



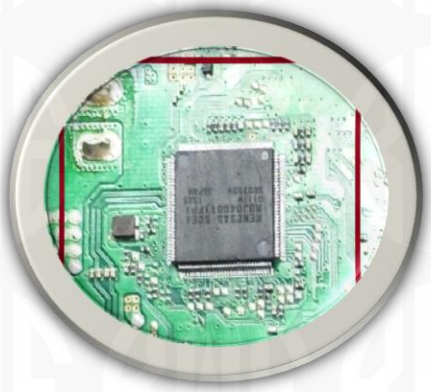
Return the slave chip back



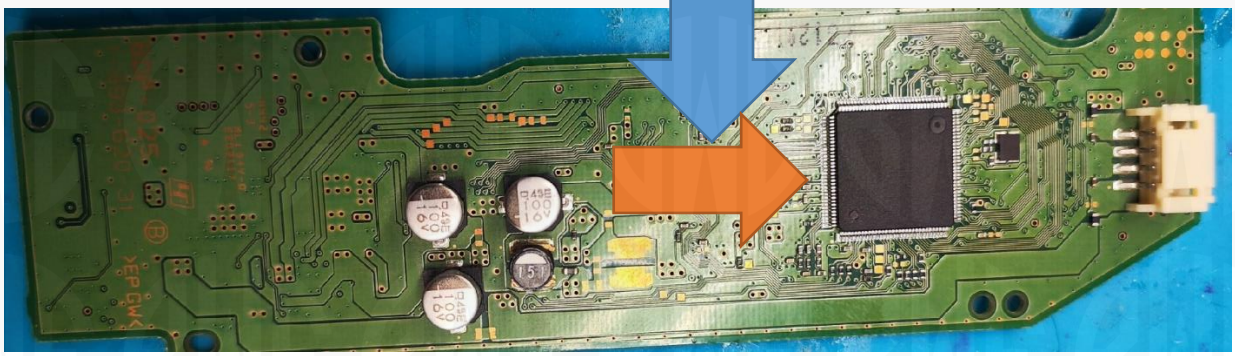
re-update on same version in safe mode



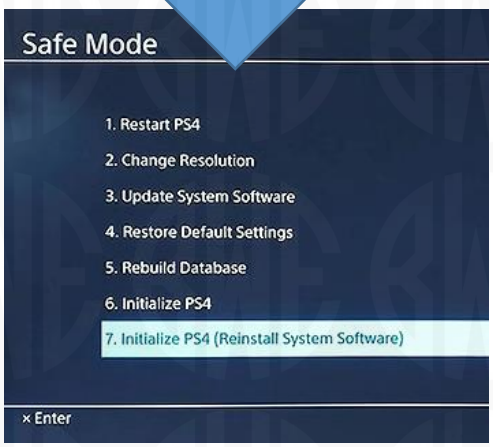
USE AGAIN MASTER CHIP ☺



Take the **master chip**



Solder to any PS4 FAT BD board (BDP-010,015,020,025) and connect



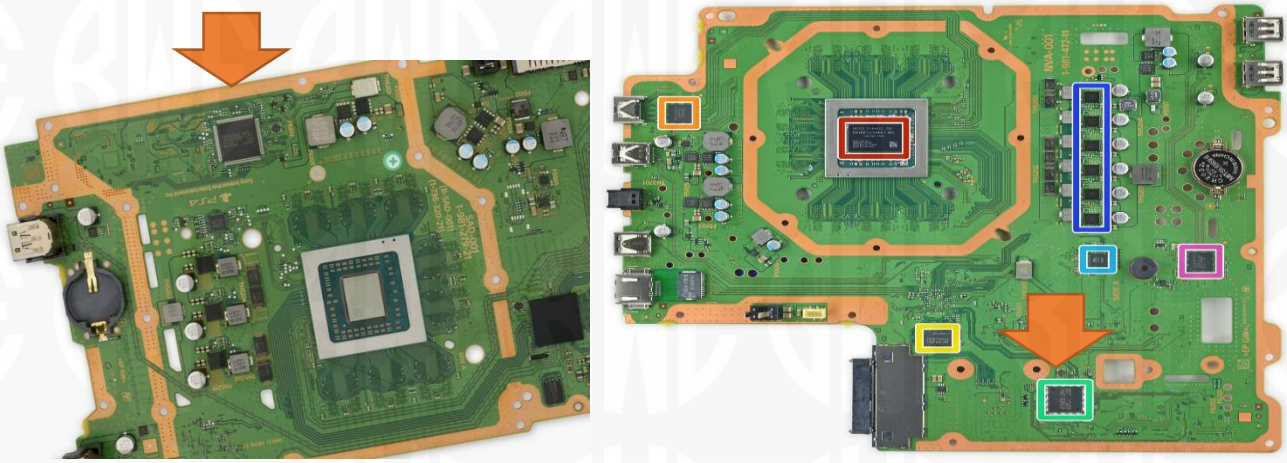
Initialize PS4 (Reinstall System Software)

DONE

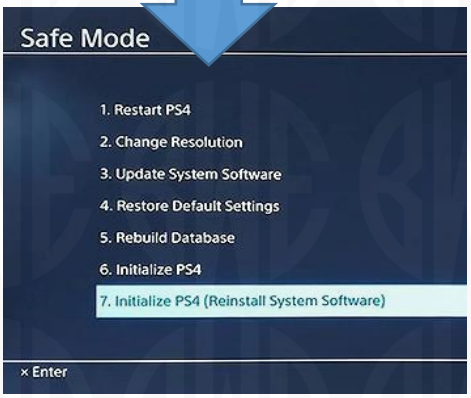
(Don’t forget to return the slave chip back and update for new use)

SLIM 20XX, 21XX and PRO 70XX Revision (BD Renesas chip on board: SAD-001,SAD-002, SAE-001, SAE-002, NVA-001)

Take the **master chip**



Replace the Renesas chip with a chip from revision 12xx



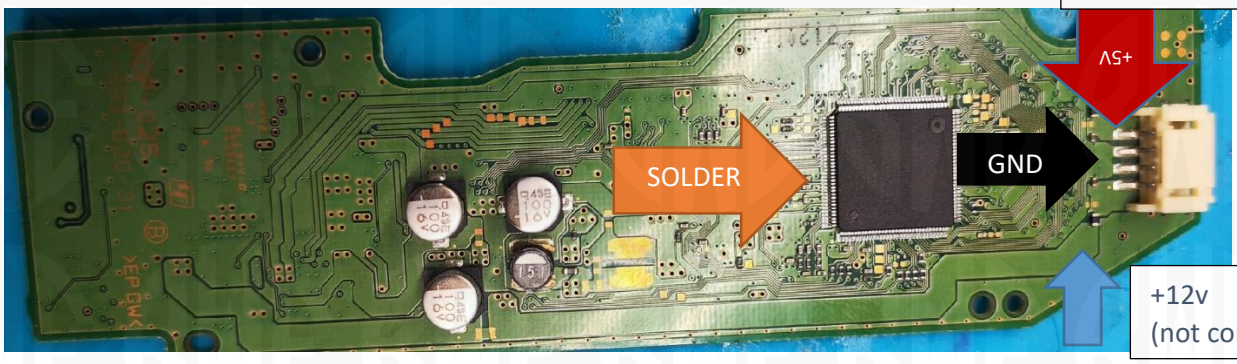
Initialize PS4 (Reinstall System Software)

DONE

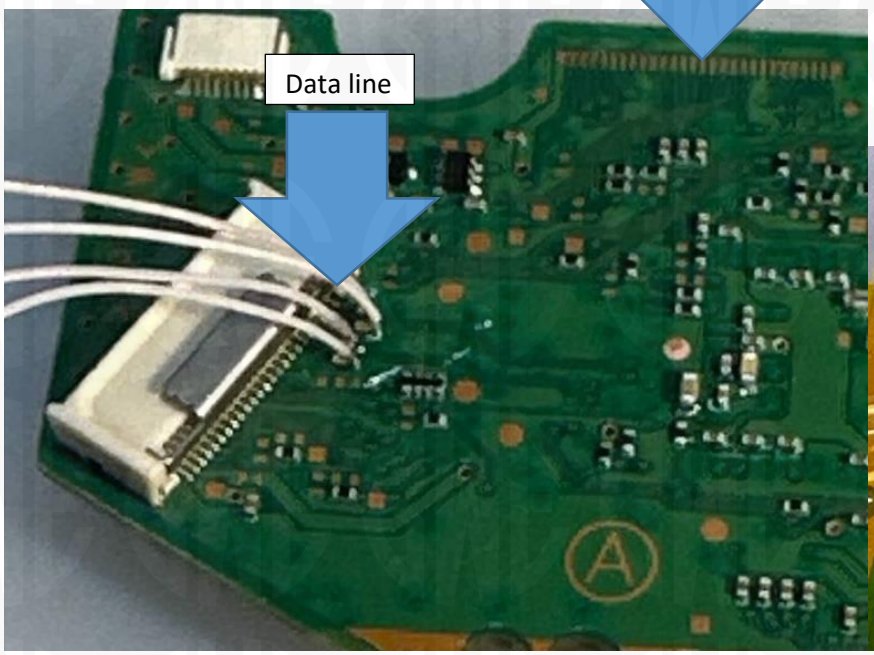
(Don’t forget to return the slave chip back and update for new use)

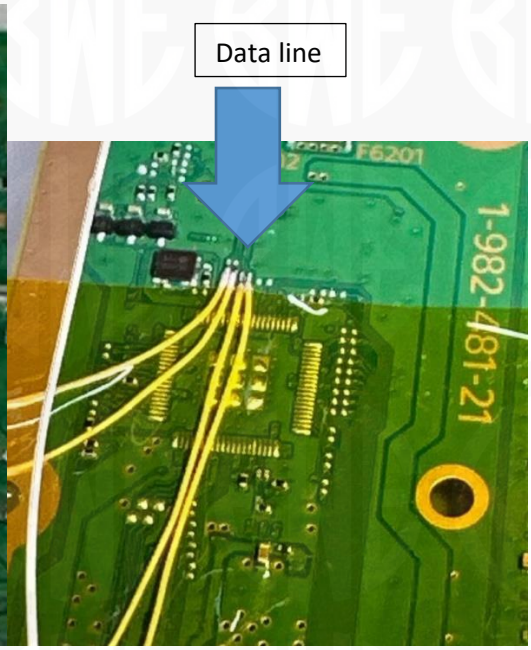
SLIM 21XX, 22XX and PRO 71XX, 72XX Revision (BD Mediatek chip on board: SAD-003, SAE-003/006, SAF-00X, NVG-00X, NVB-00X)

Take the **master chip**



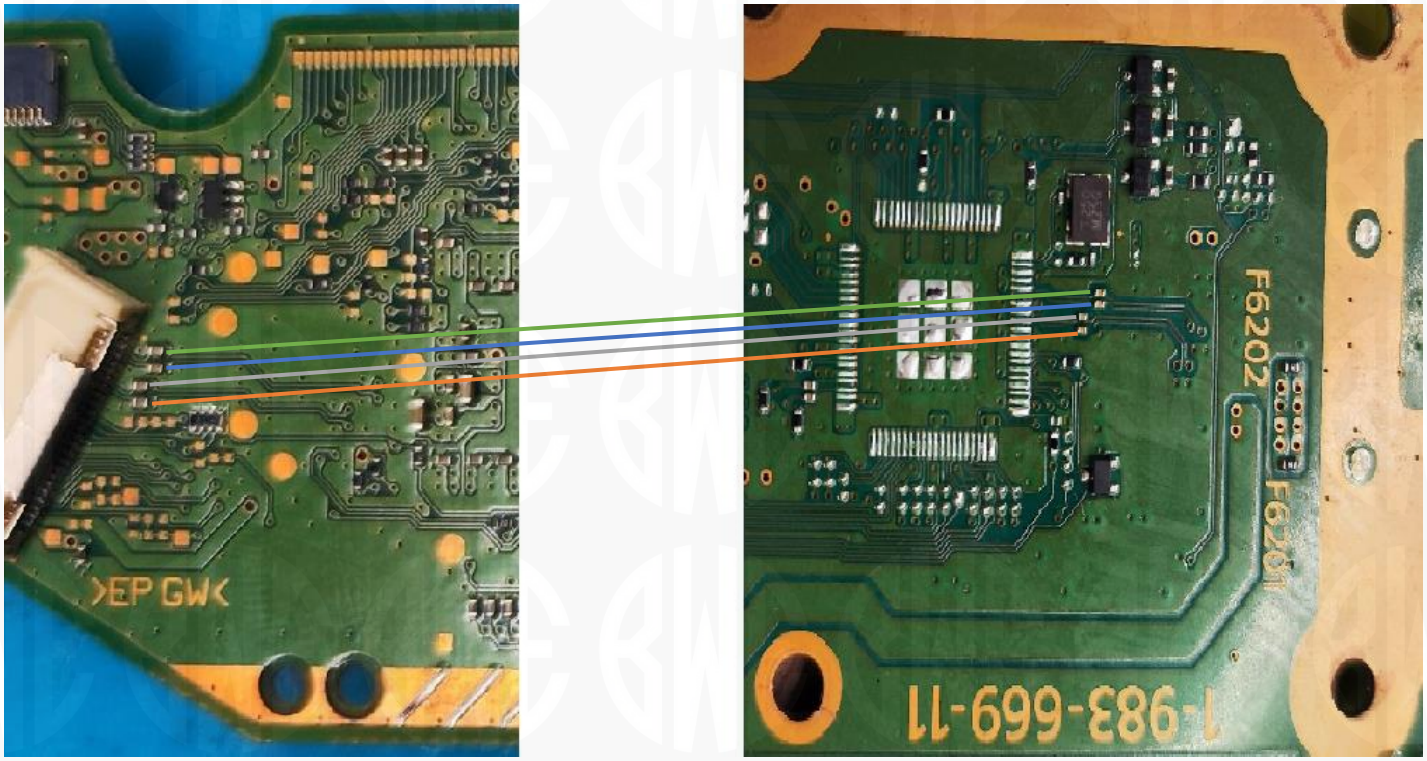
Solder to board PS4 FAT 10XX, 11XX (BDP-010,015,020,025) and connect to mediatek board



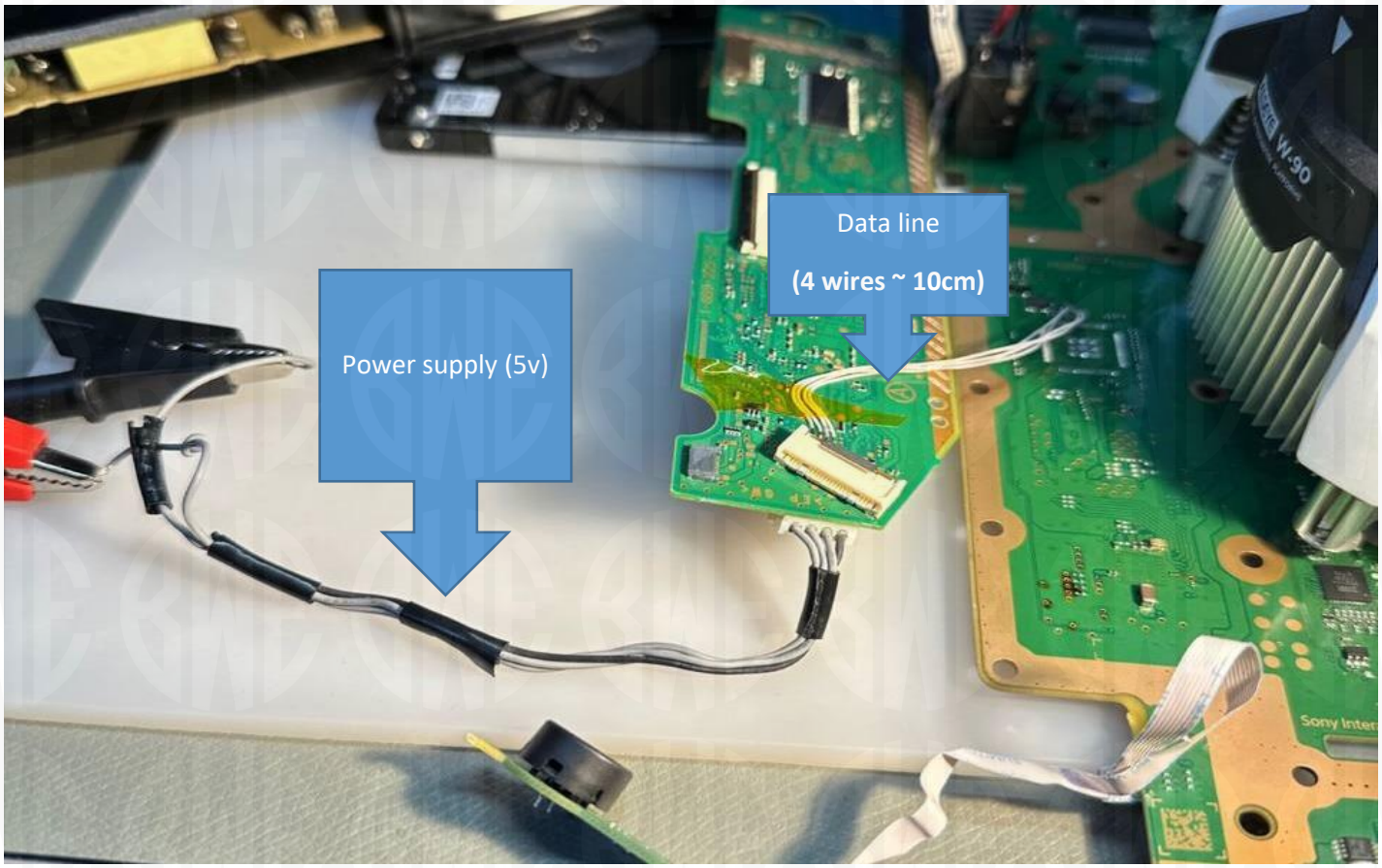


The length of the wires is **no more than 14 cm**, the board is powered 5V - 100mA via a laboratory power supply

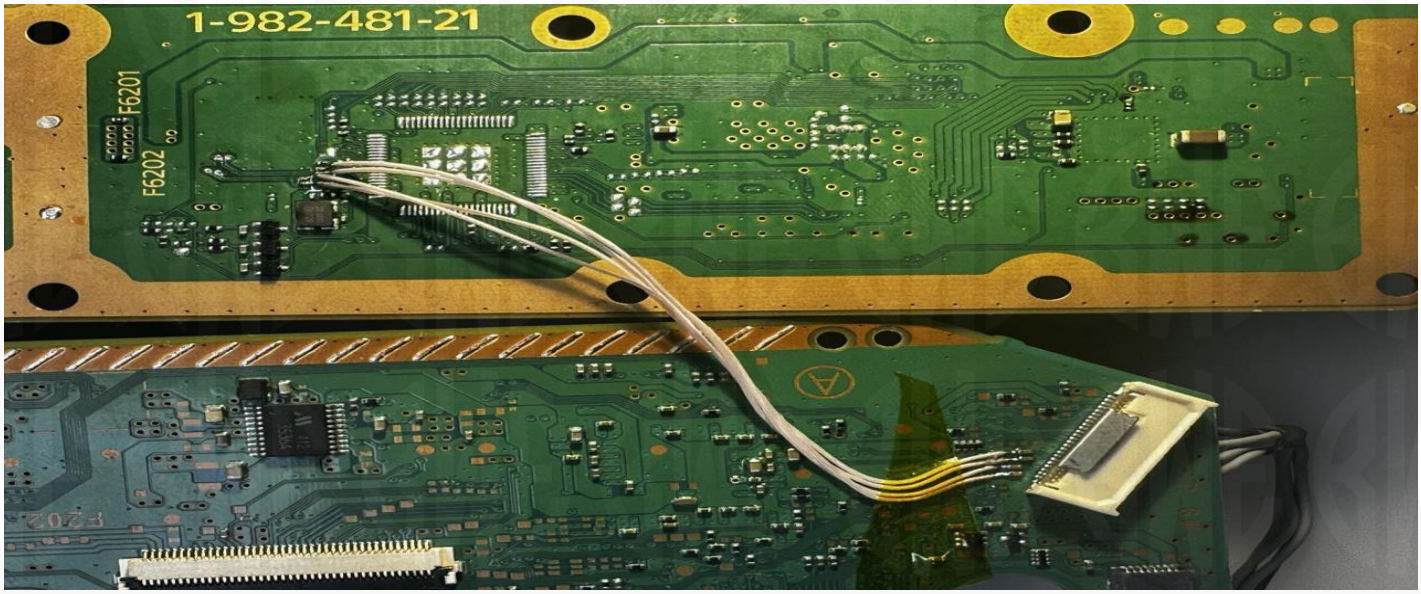
CONNECT DIAGRAM VIA 4 CAPACITORS



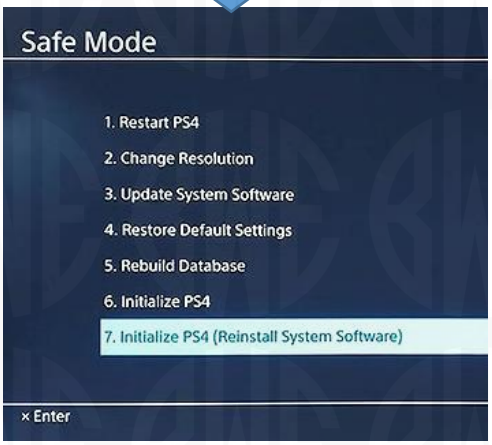
DIRECT CONNECTION VIA CAPACITORS. VERY CAREFUL: THE CAPACITORS CONTACTS ARE VERY FRAGILE!
1 LINE – 1 CAPACITOR! DO NOT CONNECT WITHOUT A CAPACITOR! (CHIPS MAY BREAK)
You can use capacitors on a renesas board or a mediatek board (easier to do on a Renesas board)
if an error occurs, the capacitors are broken, replace them (solder very carefully)



Ready-made wiring diagram for BD RENESAS -> MEDIATEK CHIPS



More

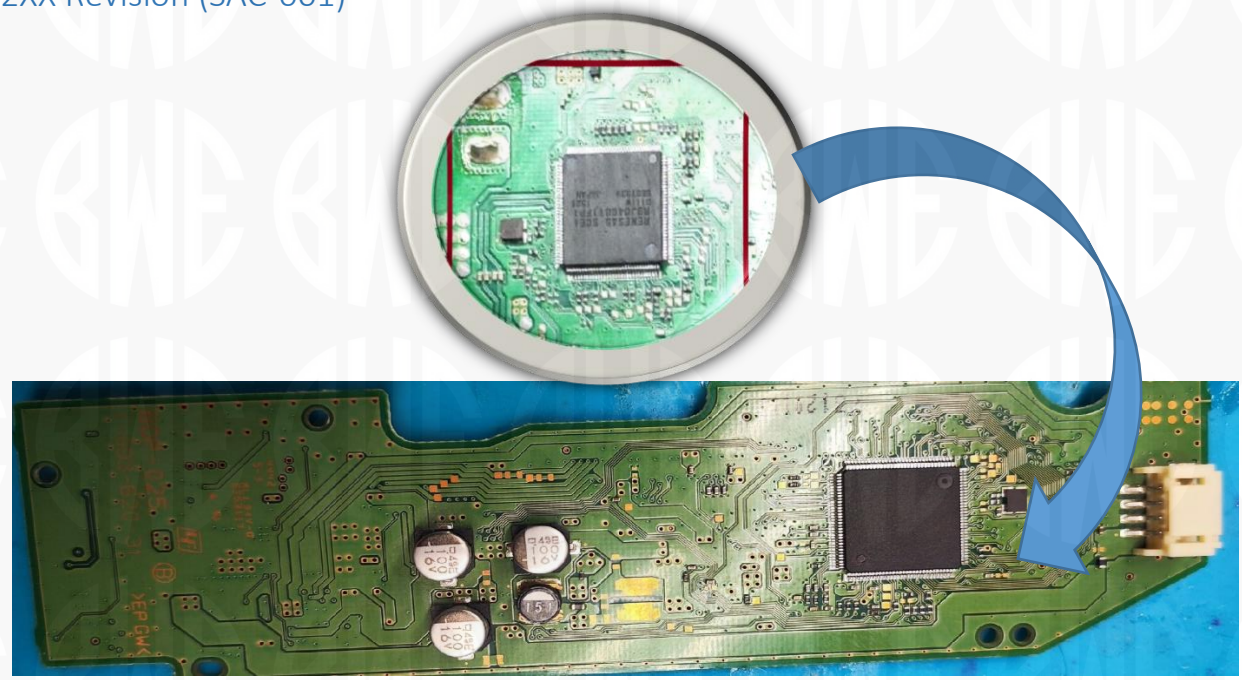


Initialize PS4 (Reinstall System Software)

DONE

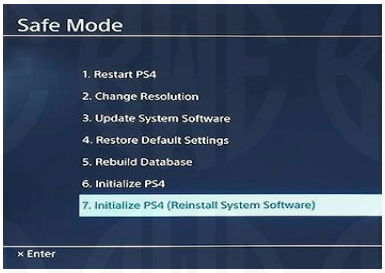
(Don’t forget to return the slave chip back and update for new use)

Notice: Didn't work? Read FAQ!



Take the **SLAVE** chip
(The chip must be used on any other revision (1,2 or 3 method above),
after installing the system on a different revision)

Solder to another SAC-001



Initialize PS4 (Reinstall System Software)

DONE

FAQ

1. Error SU-42118-6 what should I do?

Answer 1:
Wiki: BD-ROM Drive Error / Can Not Communicate with BD-ROM. Check BD-ROM Ribbon between motherboard and drive. If the tabs are broken, replace cable and test. Also check connectors for breaks or corrosion.
Answer 2: This is a communication error between the BD drive chip and the south bridge. Most likely you soldered the chip poorly, there is no power to the chip, the fuse is broken, the data line is too long. The problem is hardware (not software).

2. Error CE-35888-2 what should I do?

Answer: Your chip did not go into EM-BOOT (Emergency boot) mode, most likely you forgot to update it in the 12th revision of PS4. (Solder the chip into revision 12 and update the system to the same version)

3. Error CE-35890-5 what should I do?

Answer 1: CE-35890-5 = SCE_SBL_ERROR_DRIVEAUTH_EAGAIN .

The method of updating BD RENESAS to MEDIATEK board is complex and requires proper connection (good soldering and short wires).

Answer 2: Are you trying to install a version BELOW 9.00. Install a version 9.00 or higher

4. Will this work with recovery installs from safe mode on a freshly installed HDD?

Answer: Yes

5. What if I have no daughterboard?

Answer: Does not matter, use donor board.

6. Will this hurt or influence downgrading?

Answer: No

7. Nothing works, what should I do?

Answer: Ask BwE 😊